

Agricultural Waste Management

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Jefferson County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
13B: Olmitz-----	35	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Vesser-----	33	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.08
Zook-----	25	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability Too steep for surface application	1.00 1.00 0.01
23C2: Arispe-----	90	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too steep for sprinkler application	1.00 0.91 0.43 0.02
24D2: Shelby-----	85	Somewhat limited Slope Restricted permeability Too acid	0.63 0.30 0.02	Somewhat limited Slope Restricted permeability Too acid	0.63 0.22 0.07	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability Too acid	1.00 0.77 0.22 0.07

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41B: Sparta-----	95	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.28	Very limited Filtering capacity Droughty	1.00 0.28	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.28 0.08
51: Vesser-----	90	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
51B: Vesser-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.08
54: Zook-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 1.00 1.00	Very limited Depth to saturated zone Restricted permeability Flooding	1.00 1.00 0.60
65D2: Lindley-----	85	Somewhat limited Slope Restricted permeability Too acid	0.63 0.30 0.08	Somewhat limited Slope Too acid Restricted permeability	0.63 0.31 0.22	Very limited Too steep for surface application Too steep for sprinkler application Too acid Restricted permeability	1.00 0.77 0.31 0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65E: Lindley-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65E2: Lindley-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65F2: Lindley-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65G: Lindley-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
74: Rubio-----	90	Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
		Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
75: Givin-----	95	Too acid	0.02				
		Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
75B: Givin-----	90	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
						Too steep for surface application	0.08
76B: Ladoga-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability	0.22
						Too steep for surface application	0.08
76C2: Ladoga-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.91
						Restricted permeability	0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
76D2: Ladoga-----	90					Too steep for sprinkler application	0.02
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
80B: Clinton-----	90					Restricted permeability	0.22
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited	
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too steep for surface application	0.08
80C2: Clinton-----	90					Too acid	0.07
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Restricted permeability	0.22
80D2: Clinton-----	90					Too acid	0.07
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
		Restricted permeability	0.30	Restricted permeability	0.22		
		Too acid	0.02	Too acid	0.07	Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
87B: Colo-----	68	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Zook-----	22	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability	1.00 1.00
122: Sperry-----	90	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability	1.00 1.00
130: Belinda-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone	1.00 1.00
131B: Pershing-----	90	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Depth to saturated zone Too acid Too steep for surface application	1.00 0.43 0.31 0.08
131B2: Pershing-----	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
131C2: Pershing-----	85					Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
132B: Weller-----	90					Too acid	0.31
		Very limited		Very limited		Too steep for sprinkler application	0.02
		Restricted permeability	1.00	Restricted permeability	1.00		
		Depth to saturated zone	0.43	Depth to saturated zone	0.43		
		Too acid	0.08	Too acid	0.31		
132C: Weller-----	90						
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
132C2: Weller-----	85					Too acid	0.31
		Very limited		Very limited		Too steep for sprinkler application	0.02
		Restricted permeability	1.00	Restricted permeability	1.00		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
132D: Weller-----	90	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for sprinkler application	0.77
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
132D2: Weller-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for sprinkler application	0.77
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
139: Perks-----	90	Very limited Droughty	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Filtering capacity	1.00	Flooding	1.00	Filtering capacity	1.00
		Flooding	0.60	Filtering capacity	1.00	Flooding	0.60
		Leaching limitation	0.45				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179D2: Gara-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
						Restricted permeability	0.22
179E2: Gara-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Restricted permeability	0.22
180: Keomah-----	95	Somewhat limited Restricted permeability	0.89	Somewhat limited Restricted permeability	0.78	Somewhat limited Restricted permeability	0.78
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too acid	0.07
180B: Keomah-----	95	Somewhat limited Restricted permeability	0.89	Somewhat limited Restricted permeability	0.78	Somewhat limited Restricted permeability	0.78
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
208: Klum-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
211: Edina-----	90	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
220: Nodaway-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
222C: Clarinda-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
222C2: Clarinda-----	85	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
223C2: Rinda-----	85	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.07	Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
260: Beckwith-----	90	Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
263: Okaw-----	90	Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
264B: Ainsworth-----	85	Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08				
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
273B: Olmitz-----	90					Too steep for surface application	0.08
		Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.08
279: Taintor-----	85						
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.50	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
280: Mahaska-----	95	Somewhat limited Depth to saturated zone Too acid	0.43 0.02	Somewhat limited Depth to saturated zone Too acid	0.43 0.07	Somewhat limited Depth to saturated zone Too acid	0.43 0.07
280B: Mahaska-----	95	Somewhat limited Depth to saturated zone Too acid	0.43 0.02	Somewhat limited Depth to saturated zone Too acid	0.43 0.07	Somewhat limited Depth to saturated zone Too steep for surface application Too acid	0.43 0.08 0.07
281B: Otley-----	85	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
281B2: Otley-----	85	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
281C: Otley-----	85	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
281C2: Otley-----	85	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.91 0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
293C: Chelsea-----	65					Too steep for sprinkler application	0.02
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	0.46	Droughty	0.46	Too steep for surface application	0.91
		Leaching limitation	0.45	Too acid	0.07	Droughty	0.46
		Too acid	0.02			Too acid	0.07
						Too steep for sprinkler application	0.02
Fayette-----	25	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
293F: Chelsea-----	65	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00
		Droughty	0.46	Droughty	0.46	Filtering capacity	1.00
		Leaching limitation	0.45	Too acid	0.07	Droughty	0.46
		Too acid	0.02			Too acid	0.07
Fayette-----	25	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
		Too acid	0.02	Too acid	0.07		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
313E2: Gosport-----	90					Too acid	0.07
		Very limited		Very limited		Very limited	
		Restricted	1.00	Droughty	1.00	Droughty	1.00
		permeability					
		Droughty	1.00	Restricted	1.00	Restricted	1.00
		permeability					
313G: Gosport-----	90	Slope	0.96	Slope	0.96	Too steep for surface application	1.00
		Depth to	0.95	Depth to	0.95	Too steep for	0.97
		saturated zone		saturated zone		sprinkler	
						application	
		Depth to bedrock	0.46	Depth to bedrock	0.46	Depth to saturated zone	0.95
315: Nodaway-----	45						
		Very limited		Very limited		Very limited	
		Slope	1.00	Droughty	1.00	Droughty	1.00
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
Klum-----	25						
		Depth to	0.95	Depth to	0.95	Too steep for	1.00
		saturated zone		saturated zone		sprinkler	
						application	
		Depth to bedrock	0.46	Depth to bedrock	0.46	Depth to saturated zone	0.95
Perks-----	20						
		Somewhat limited		Very limited		Somewhat limited	
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Somewhat limited		Very limited		Somewhat limited	
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Very limited		Very limited		Very limited	
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Filtering	1.00	Flooding	1.00	Filtering	1.00
		capacity				capacity	
		Flooding	0.60	Filtering	1.00	Flooding	0.60
		Leaching	0.45	capacity			
		limitation					

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
362: Haig-----	85	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability	1.00 1.00
363: Haig-----	85	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Depth to saturated zone Restricted permeability	1.00 1.00	Very limited Depth to saturated zone Restricted permeability	1.00 1.00
364B: Grundy-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.95	Very limited Restricted permeability Depth to saturated zone	1.00 0.95	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00 0.95 0.08
364B2: Grundy-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.95	Very limited Restricted permeability Depth to saturated zone	1.00 0.95	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00 0.95 0.08
423D2: Bucknell-----	85	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Too steep for surface application Restricted permeability Depth to saturated zone	1.00 1.00 1.00

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Jefferson County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
424D2: Lindley-----	45	Runoff limitation	0.40			Too steep for sprinkler application	0.77
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
Keswick-----	40	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
424E2: Lindley-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
Keswick-----	40	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00

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Jefferson County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
425D: Keswick-----	90	Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	1.00
						Too acid	0.31
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
425D2: Keswick-----	85	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
430: Ackmore-----	95	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
453: Tuskeego-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
499G: Nordness-----	90	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
		Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Droughty	1.00	Droughty	1.00
		Droughty	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
520: Coppock-----	90	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
520B: Coppock-----	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
						Too steep for surface application	0.08
570C2: Nira-----	85	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
571C2: Hedrick-----	85	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.91

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
572C2: Inton-----	85					Too steep for sprinkler application	0.02
		Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
572D2: Inton-----	85					Too steep for sprinkler application	0.02
		Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
587: Chequest-----	85					Too acid	0.07
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
594D2: Galland-----	85	Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
729: Nodaway-----	55	Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
		Somewhat limited		Very limited		Somewhat limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Coppock-----	40	Flooding	0.60	Flooding	1.00	Flooding	0.60
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
730B: Nodaway-----	40	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding Too steep for surface application	0.60 0.08
Coppock-----	35	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08
Cantril-----	20	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too steep for surface application Too acid	0.08 0.07
779: Kalona-----	90	Very limited Depth to saturated zone Restricted permeability	1.00 0.30	Very limited Depth to saturated zone Restricted permeability	1.00 0.22	Very limited Depth to saturated zone Restricted permeability	1.00 0.22
792C2: Armstrong-----	85	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00 1.00 0.91

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
792D2: Armstrong-----	85					Too steep for sprinkler application	0.02
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
795C2: Ashgrove-----	85	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too steep for surface application	0.91
		Too acid	0.08			Too acid	0.31
						Too steep for sprinkler application	0.02
795D2: Ashgrove-----	85	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Runoff limitation	0.40	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08			Too acid	0.31
822D2: Lamoni-----	95	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
831B: Pershing-----	90	Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.01	Too acid	0.01	Too steep for sprinkler application	0.77
						Too acid	0.01
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
831C2: Pershing-----	85	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
832B: Weller-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
832C2: Weller-----	85	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
832D2: Weller-----	85	Very limited Restricted permeability Slope Depth to saturated zone Too acid	1.00 0.63 0.43 0.08	Very limited Restricted permeability Slope Depth to saturated zone Too acid	1.00 0.63 0.43 0.31	Very limited Too steep for surface application Restricted permeability Too steep for sprinkler application Depth to saturated zone Too acid	1.00 1.00 0.77 0.43 0.31
876B: Ladoga-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability Too steep for surface application	0.22 0.08
876C2: Ladoga-----	85	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91 0.22 0.02

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
880B: Clinton-----	90	Somewhat limited Restricted permeability Too acid	0.30 0.02	Somewhat limited Restricted permeability Too acid	0.22 0.07	Somewhat limited Restricted permeability Too steep for surface application Too acid	0.22 0.08 0.07
880C2: Clinton-----	85	Somewhat limited Restricted permeability Too acid	0.30 0.02	Somewhat limited Restricted permeability Too acid	0.22 0.07	Somewhat limited Too steep for surface application Restricted permeability Too acid Too steep for sprinkler application	0.91 0.22 0.07 0.02
880D2: Clinton-----	85	Somewhat limited Slope Restricted permeability Too acid	0.63 0.30 0.02	Somewhat limited Slope Restricted permeability Too acid	0.63 0.22 0.07	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability Too acid	1.00 0.77 0.22 0.07
977: Richwood-----	90	Not limited		Not limited		Not limited	
993D2: Gara-----	45	Somewhat limited Slope Restricted permeability	0.63 0.30	Somewhat limited Slope Restricted permeability	0.63 0.22	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 0.77 0.22
Armstrong-----	40	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
993E2: Gara-----	45	Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00
						Restricted permeability	0.22
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
994D2: Galland-----	65					Depth to saturated zone	1.00
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
Douds-----	20	Somewhat limited		Somewhat limited		Very limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
994E2: Galland-----	50	Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Runoff limitation	0.40			Depth to saturated zone	1.00
Douds-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
1075B: Givin-----	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
						Too steep for surface application	0.01
1130: Belinda-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1260: Beckwith-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 1.00 0.40 0.08	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.31	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.31
1715: Nodaway-----	40	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Vesser-----	35	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
Ackmore-----	20	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
5020: Pits And Dumps-----	100	Not rated		Not rated		Not rated	
5030: Pits, Limestone Quar	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
W: Water-----	100	Not rated		Not rated		Not rated	